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Table 5

IRRADIATION DOSES SUSTAINED WHILE CROSSING OF THE WAKE OF A RADIO-ACTIVE CLOUD

(Speed of the average wind: 50 km/hour) *

Distance from centre of burst in kilometres	Irradiation doses sustained by personnel during the crossing of the wake, after a burst of a yield: (in TNT equivalent kilotons)																
	2	3	5	10	15	20	30	40	50	75	100	150	200	300	500	700	1000
2	1.0	1.0	1.0	0.6	0.5	0.5	0.4	0.4	0.3	0.3	0.2	0.2	0.15	0.1	0.1	0.05	0.05
3	0.8	1.6?	1.5	1.2	1.0	1.0	1.0	1.0	0.8	0.8	0.6	0.4	0.3	0.2	0.15	0.1	0.1
4	0.6?	1.5?	2.5	2.0	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.5	0.3	0.2	0.2	0.2
6	0.3?	0.6	1.0	4.0	3.0	3.0	3.0	2.0	2.0	2.0	1.5	1.2	1.0	0.7	0.5	0.5	0.4
8	0.2	0.4	0.6?	2.0	4.0	4.0	4.0	3.0	3.0	3.0	2.5	2.0	1.5	1.0	1.0	0.7	0.6
10	0.1	0.2?	0.5?	1.5	2.5?	5.0	5.0	5.6?	5.0	4.0	3.0	3.0	2.0	1.5	1.2	1.0	1.0
12	-	0.1	0.3?	1.0?	1.5	4.0	6.0	6.0	6.0?	5.0	5.0	4.0	3.0	2.0	2.0	1.5	1.2
14	-	-	0.25	0.7?	1.2	2.5	4.0?	7.0	7.0	6.0	6.0	5.0	4.0	3.0	2.5	2.0	2.0
16 ?	-	-	0.15	0.5?	1.0	2.0	4.0	6.0	8.0?	8.0?	8.0?	6.0	5.0	4.0	4.0	2.5	2.5
20	-	-	0.1	0.3?	0.7	1.0	2.0	4.0	5.0?	9.0	9.0	8.0	6.0	5.0	4.0	3.5	3.0
25	-	-	-	0.2?	0.4	0.7	1.5?	2.0	3.0	7.0	10.0	10.0	8.0	7.0	6.0	5.0	4.0
30	-	-	-	0.1?	0.2?	0.5?	1.0	1.5?	2.0	4.0	7.0	11.0	10.0	8.0	7.0	6.5	6.0
40 ?	-	-	-	-	0.2?	0.3?	0.5?	0.8?	1.2	2.5	4.0	10.0	12.0	12.0	12.0	10.0	9.0
50 ?	-	-	-	-	0.1?	0.2?	0.3	0.5	0.7	2.0	2.5	5.0?	10.0	14.0	16.0	15.0	12.0
60 ?	-	-	-	-	-	0.1	0.2	0.4	0.5?	1.0	2.0	3.5	7.0	10.0	18.0?	17.0	20.0
70 ?	-	-	-	-	-	-	0.1	0.3	0.4	0.6?	1.2	2.5	4.0	8.0?	15.0	20.0	25.0
80 ?	-	-	-	-	-	-	-	0.2	0.3	0. ?	1.0	2.0	2.5	4.0	10.0	18.0	30.0
90 ?	-	-	-	-	-	-	-	0.1	0.2	0.4	0.7	1.2	3.0	3.5	8.0	15.0	25.0
100	-	-	-	-	-	-	-	-	0.1	0.3?	0.6?	1.0	1.5	3.0	7.0	12.0	20.0
120	-	-	-	-	-	-	-	-	-	0.1	0.3?	0.6?	1.0	2.0	4.0	8.0	12.0
150	-	-	-	-	-	-	-	-	-	-	0.2	0.4	0.6	1.2	3.0	5.0	9.0
175 ?	-	-	-	-	-	-	-	-	-	-	0.1	0.2	0.4	0.8	2.0	4.0	7.0
200	-	-	-	-	-	-	-	-	-	-	-	0.1	0. ?	0. ?	1.5	3.0	5.0
250	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.2?	1.0	2.0	3.0

Remark 1. The irradiation doses given in the table should be multiplied by the period of time [in hours ?] between the instant of burst and the moment when the head of the column crosses the axis of the wake, and by the dose sustained when using a particular means of transport for crossing the terrain.

* Methods of evaluating the radiation position when concentrated use is made of nuclear weapons, and some problems connected with the protection of troops operating in contaminated areas. Voyenizdat, Moscow, 1960.

[Translator's comment: It appears that the values given in Table 5 are not doses but dose rates in roentgens/hour. They should be multiplied by the period of time in hours to obtain the dose in roentgens. The meaning of the second part of the "Remark" is not clear. It may refer to Table 5a.]

SECRET

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